

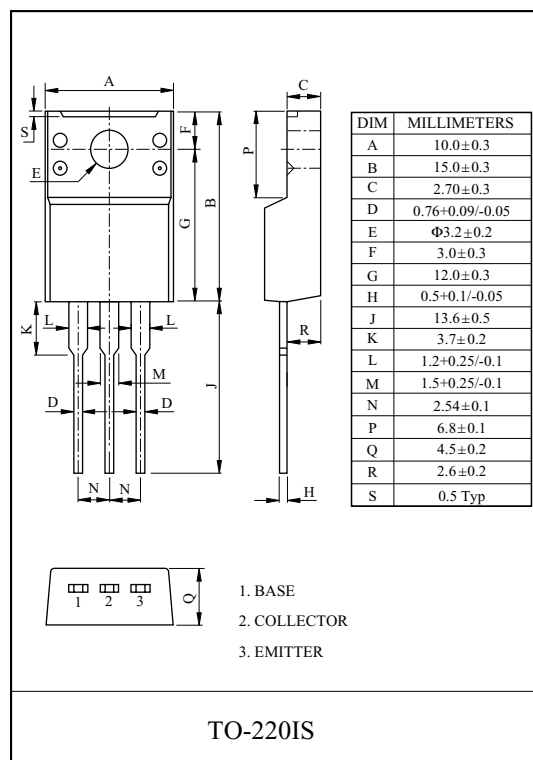
HIGH VOLTAGE APPLICATION.

## FEATURES

- High Transition Frequency :  $f_T=100\text{MHz(Typ.)}$ .
- Complementary to KTC4370/A.

MAXIMUM RATING ( $T_a=25^\circ\text{C}$ )

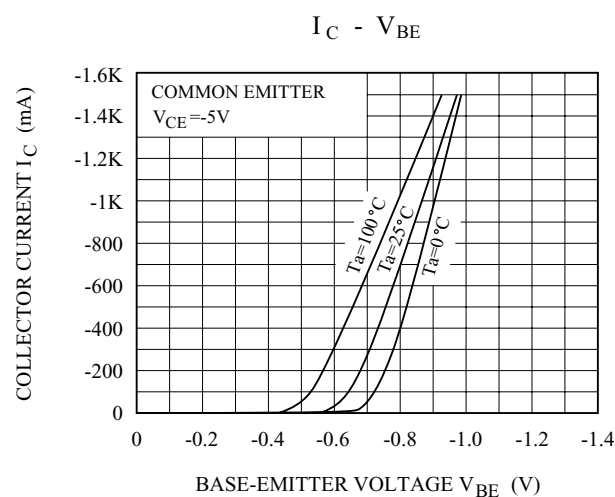
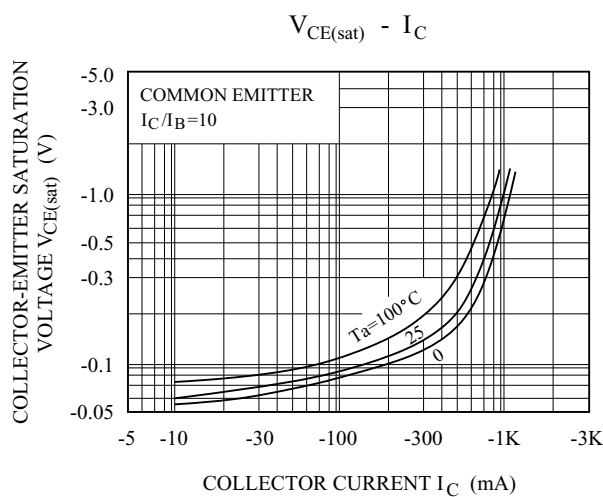
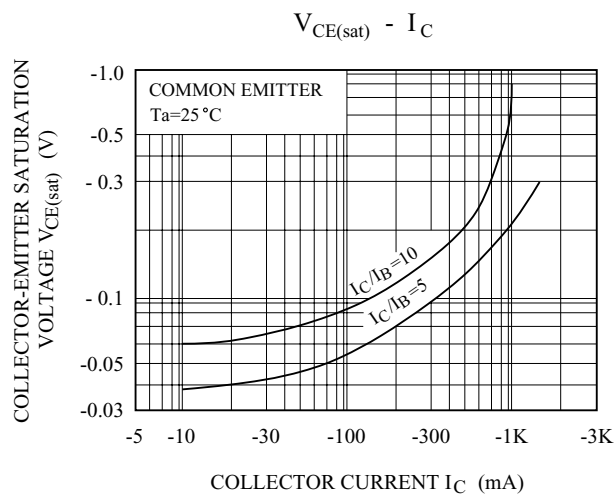
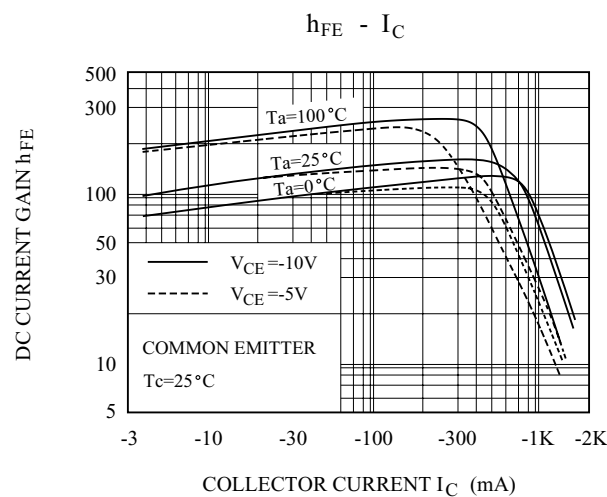
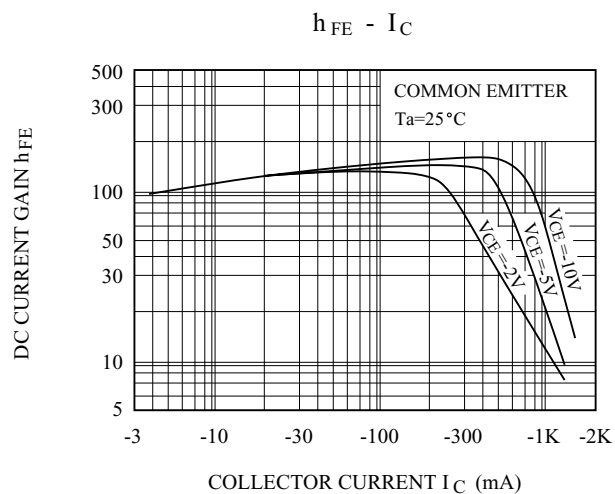
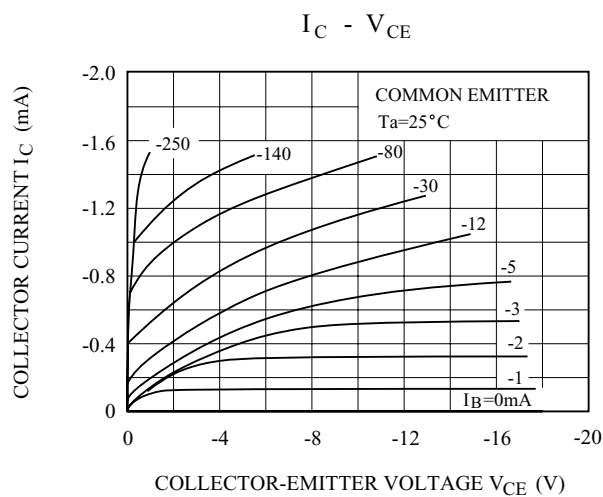
CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage	KTA1659	$V_{CBO}$	-160	V
	KTA1659A		-180	
Collector-Emitter Voltage	KTA1659	$V_{CEO}$	-160	V
	KTA1659A		-180	
Emitter-Base Voltage		$V_{EBO}$	-5	V
Collector Current		$I_C$	-1.5	A
Base Current		$I_B$	-0.15	A
Collector Power Dissipation ( $T_c=25^\circ\text{C}$ )		$P_C$	20	W
Junction Temperature		$T_j$	150	$^\circ\text{C}$
Storage Temperature Range		$T_{stg}$	-55 ~ 150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$ )

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		$I_{CBO}$	$V_{CB}=-160\text{V}, I_E=0$	-	-	-1.0	$\mu\text{A}$
Emitter Cut-off Current		$I_{EBO}$	$V_{EB}=-5\text{V}, I_C=0$	-	-	-1.0	$\mu\text{A}$
Collector-Emitter Breakdown Voltage	KTA1659	$V_{(BR)CEO}$	$I_C=-10\text{mA}, I_B=0$	-160	-	-	V
	KTA1659A			-180	-	-	
DC Current Gain		$h_{FE}(\text{Note})$	$V_{CE}=-5\text{V}, I_C=-100\text{mA}$	70	-	240	
Collector-Emitter Saturation Voltage		$V_{CE(sat)}$	$I_C=-500\text{mA}, I_B=-50\text{mA}$	-	-	-1.5	V
Base-Emitter Voltage		$V_{BE}$	$V_{CE}=-5\text{V}, I_C=-500\text{mA}$	-	-	-1.0	V
Transition Frequency		$f_T$	$V_{CE}=-10\text{V}, I_C=-100\text{mA}$	-	100	-	MHz
Collector Output Capacitance		$C_{ob}$	$V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz}$	-	30	-	pF

Note :  $h_{FE}$  Classification O:70~140, Y:120~240

# KTA1659/A



# KTA1659/A

